

Supplementary Table S8 The 80 probes (70 genes) that were included among the non-alcoholic steatohepatitis (NASH) specifically affected probes whose DNA methylation alterations were inherited by or strengthened in NASH-related hepatocellular carcinoma (NASH-T) samples (Jonckheere-Terpstra trend test) and that showed significant differences in DNA methylation levels even between NASH-T samples and hepatitis virus-related hepatocellular carcinoma (viral-T) samples.

Target ID ^a	Chromosome	Gene symbol ^b	DNA methylation levels (mean±SD)		
			NASH-T (n=22)	Viral-T (n=37)	P (Welch's t test)
cg08679807	1	<i>ACOT7</i>	0.673±0.039	0.769±0.054	8.450x10 ⁻⁵
cg10555853	1	N/A	0.525±0.050	0.439±0.041	2.281x10 ⁻²
cg23108607	1	<i>KIAA0754</i>	0.675±0.051	0.767±0.054	2.487x10 ⁻²
cg19777710	1	<i>AKR7A2P1</i>	0.681±0.037	0.753±0.050	2.868x10 ⁻²
cg01815906	1	<i>SMYD3</i>	0.677±0.035	0.759±0.052	8.411x10 ⁻⁴
cg26534993	2	<i>TSSC1</i>	0.499±0.040	0.594±0.058	4.734x10 ⁻⁴
cg10328259	2	<i>TSSC1</i>	0.678±0.043	0.794±0.068	3.380x10 ⁻⁵
cg01400712	2	<i>EFR3B</i>	0.485±0.037	0.394±0.065	2.793x10 ⁻³
cg25116269	2	<i>PRORSD1P</i>	0.160±0.023	0.089±0.058	2.241x10 ⁻²
cg01287788	2	<i>SNORD94</i>	0.684±0.024	0.776±0.077	1.278x10 ⁻²
cg13896783	2	<i>PKP4</i>	0.443±0.043	0.331±0.086	6.176x10 ⁻³
cg01779076	2	<i>CFLAR</i>	0.376±0.038	0.292±0.044	3.465x10 ⁻⁴
cg12198254	3	<i>ATG7</i>	0.668±0.026	0.737±0.052	6.425x10 ⁻³
cg09352908	3	N/A	0.783±0.041	0.895±0.054	1.830x10 ⁻⁶
cg13003239	3	<i>WDR6</i>	0.453±0.034	0.271±0.136	5.926x10 ⁻⁴
cg08081407	3	<i>ARF4</i>	0.268±0.027	0.169±0.051	9.340x10 ⁻⁸
cg07804735	3	<i>WDR52</i>	0.695±0.048	0.806±0.043	2.750x10 ⁻⁵
cg10757852	3	<i>RASA2</i>	0.535±0.032	0.633±0.072	1.209x10 ⁻³
cg18185028	3	<i>DHX36</i>	0.390±0.044	0.282±0.059	5.610x10 ⁻⁵
cg05788437	3	<i>FYTTD1</i>	0.142±0.014	0.081±0.051	1.142x10 ⁻²
cg03150409	4	<i>WHSC1</i>	0.637±0.045	0.773±0.093	2.625x10 ⁻⁴
cg21843114	4	<i>RBPJ</i>	0.440±0.035	0.519±0.054	3.863x10 ⁻³
cg17404403	4	<i>GARI</i>	0.199±0.054	0.090±0.038	7.511x10 ⁻⁴
cg14497545	4	<i>MAML3</i>	0.538±0.045	0.704±0.096	1.210x10 ⁻⁶
cg15285494	4	N/A	0.671±0.029	0.787±0.096	8.839x10 ⁻³
cg07893230	5	<i>CTNNAI</i>	0.290±0.035	0.216±0.041	1.051x10 ⁻³
cg12152193	5	<i>RNF44</i>	0.578±0.053	0.703±0.077	4.464x10 ⁻⁴
cg09741240	6	<i>NQO2</i>	0.235±0.034	0.118±0.048	1.720x10 ⁻⁹
cg14047339	6	<i>SUPT3H</i>	0.325±0.023	0.215±0.083	6.199x10 ⁻⁴
cg10616859	7	<i>BRAT1</i>	0.670±0.033	0.743±0.041	5.981x10 ⁻⁴
cg11213199	7	<i>MRPS24</i>	0.485±0.026	0.408±0.044	1.290x10 ⁻⁵
cg04205664	7	<i>CLEC2L</i>	0.259±0.108	0.496±0.189	4.114x10 ⁻²
cg25009327	7	<i>ZNF425</i>	0.287±0.060	0.432±0.110	8.531x10 ⁻³
cg08499057	7	<i>ABCF2</i>	0.631±0.044	0.715±0.052	1.132x10 ⁻²
cg13810766	7	<i>PRKAG2</i>	0.458±0.053	0.630±0.101	4.080x10 ⁻⁶
cg01994308	8	<i>PLAG1</i>	0.301±0.068	0.150±0.089	8.452x10 ⁻⁴
cg13560760	9	<i>PMPCA</i>	0.563±0.032	0.658±0.051	3.080x10 ⁻⁶
cg14495033	9	<i>EHMT1</i>	0.654±0.029	0.730±0.062	2.190x10 ⁻²
cg27435660	10	<i>FBXO18</i>	0.577±0.034	0.731±0.051	7.501x10 ⁻³
cg02732134	10	<i>DNMBP</i>	0.677±0.068	0.768±0.112	2.830x10 ⁻⁵
cg08206623	11	<i>CDKN1C</i>	0.306±0.046	0.156±0.109	6.244x10 ⁻⁴
cg18089569	11	N/A	0.229±0.020	0.143±0.067	1.859x10 ⁻³
cg12375876	11	N/A	0.657±0.037	0.732±0.042	1.954x10 ⁻³
cg24240077	11	<i>AAMDC</i>	0.682±0.023	0.753±0.052	1.459x10 ⁻³
cg20090957	12	<i>MAPKAPK5</i>	0.231±0.030	0.172±0.028	3.669x10 ⁻³

Target ID ^a	Chromosome	Gene symbol ^b	DNA methylation levels (mean±SD)		
			NASH-T (n=22)	Viral-T (n=37)	P (Welch's t test)
cg07449447	14	<i>SAMD4A</i>	0.740±0.026	0.804±0.052	4.934x10 ⁻²
cg03468541	14	<i>ZC3H14</i>	0.213±0.038	0.116±0.052	2.450x10 ⁻⁵
cg11021810	14	<i>FOXN3</i>	0.688±0.029	0.745±0.040	4.998x10 ⁻²
cg08707819	14	<i>RCOR1</i>	0.443±0.037	0.358±0.062	9.061x10 ⁻³
cg21937244	14	<i>CDC42BPB</i>	0.781±0.018	0.845±0.051	6.516x10 ⁻³
cg00470768	15	<i>INO80</i>	0.507±0.050	0.634±0.066	1.360x10 ⁻⁵
cg13417485	15	<i>UNC45A</i>	0.613±0.038	0.697±0.055	3.259x10 ⁻³
cg02205746	16	<i>KCTD5</i>	0.185±0.042	0.097±0.030	2.868x10 ⁻⁴
cg04548722	16	<i>SMIM22</i>	0.556±0.030	0.621±0.048	2.372x10 ⁻²
cg09141413	16	<i>GPRC5B</i>	0.273±0.030	0.197±0.051	1.044x10 ⁻³
cg08213792	16	N/A	0.576±0.032	0.676±0.049	2.850x10 ⁻⁷
cg01684248	16	<i>FENDRR</i>	0.420±0.049	0.310±0.089	4.311x10 ⁻²
cg12774921	16	<i>SPG7</i>	0.523±0.030	0.605±0.047	2.760x10 ⁻⁵
cg03321231	17	<i>RPH3AL</i>	0.603±0.047	0.726±0.065	1.280x10 ⁻²
cg19105961	17	<i>ZZEF1</i>	0.431±0.043	0.336±0.071	1.651x10 ⁻²
cg11855759	17	<i>USP43</i>	0.308±0.051	0.192±0.064	1.858x10 ⁻⁴
cg07138452	17	<i>FLCN</i>	0.280±0.043	0.187±0.053	8.615x10 ⁻⁴
cg06361278	17	N/A	0.252±0.044	0.168±0.055	1.956x10 ⁻²
cg25629442	17	<i>ENGASE</i>	0.267±0.043	0.172±0.059	1.933x10 ⁻³
cg08109808	17	<i>CCDC40</i>	0.648±0.036	0.734±0.053	4.053x10 ⁻⁴
cg25270498	17	<i>METRNL</i>	0.258±0.043	0.152±0.065	2.033x10 ⁻⁴
cg06808467	18	<i>LINC00526</i>	0.240±0.034	0.141±0.070	7.596x10 ⁻⁴
cg25538450	19	<i>REXO1</i>	0.219±0.045	0.139±0.040	1.733x10 ⁻²
cg23084309	19	<i>MLLT1</i>	0.276±0.036	0.183±0.055	6.920x10 ⁻⁵
cg09112613	19	<i>PRAMI</i>	0.685±0.045	0.773±0.062	3.560x10 ⁻²
cg07783291	19	N/A	0.581±0.045	0.667±0.056	2.089x10 ⁻²
cg05910615	19	<i>PROSER3</i>	0.173±0.044	0.077±0.041	1.097x10 ⁻⁴
cg06684987	19	<i>CLASRP</i>	0.642±0.021	0.704±0.055	4.281x10 ⁻²
cg01198024	21	<i>MRAP</i>	0.549±0.035	0.631±0.044	1.019x10 ⁻⁴
cg17499729	21	<i>CBR3-AS1</i>	0.497±0.059	0.636±0.075	9.030x10 ⁻⁵
cg11381792	21	<i>TRAPPCL0</i>	0.240±0.034	0.151±0.045	9.370x10 ⁻⁶
cg05998816	21	<i>PCNT</i>	0.772±0.045	0.876±0.045	3.410x10 ⁻⁵
cg05367846	22	<i>MICAL3</i>	0.191±0.032	0.106±0.069	2.059x10 ⁻²
cg09020181	22	N/A	0.184±0.034	0.115±0.043	5.466x10 ⁻³
cg25152348	22	<i>NCAPH2</i>	0.311±0.048	0.180±0.097	2.558x10 ⁻³

^aProbe ID of the Infinium HumanMethylation450 BeadChip. ^bNational Center for Biotechnology Information (NCBI) database (Genome Build 37). N/A, not annotated (designed in the intergenic regions).